REMARKS/ARGUMENTS

Favorable reconsideration of this application in light of the following discussion is respectfully requested.

Claims 1-35 are currently pending. The present amendment adds Claims 29-35. In the outstanding Office Action, Claims 1-28 were rejected under 35 U.S.C. § 103(a) as being unpatentable over <u>Lisinski et al.</u> (U.S. Patent No. 5,260,866, herein "<u>Lisinski</u>") in view of Thackston (U.S. Patent No. 6,295,513).

First, Applicant wishes to thank Examiner Bahta for the courtesy of an interview granted to Applicant's representatives on February 3, 2005, at which time the prior art and outstanding issues of sister Application Serial No. 10/712,009, which are related to those of the present application, were discussed. As in the sister Application, the outstanding Office Action in this case does not appear to assert that all features of *amended* Claims 1 and 11 were taught by the prior art. In particular, "said definition comprising an expression of rules and constraints" is not taught by the Lisinski patent. Further, the recitation "the industrial product is an aircraft" is not taught by the Thackston patent. As in the sister case, Applicant invites Examiner Bahta to contact the undersigned at her convenience upon examination of this Amendment. The undersigned can be reached at (703) 413-6577.

In response to the rejection of Claims 1-28, Applicant respectfully requests reconsideration of the rejection and traverses the rejection as discussed next.

Briefly recapitulating, Applicant's invention, as recited in Claim 1, is directed to a system to structure and manage a configuration of an industrial product, taking into account selected options, including: means for describing a set of technical objects, each technical object either representing a product function or describing an implementation method for the product function, the set of technical objects representing manufacturing options of the industrial product; means for storing and updating a definition of each technical object and of

its inter-relations with other of the technical objects in the product configuration, the definition including an expression of rules and constraints; and means for data input and means for interactively and dynamically using said means for storing and updating during said configuration of the product.

The Office Action asserts that the <u>Lisinski</u> patent teaches certain features of Claims 1-28 and relies on the <u>Thackston</u> patent to cure the deficiencies of the <u>Lisinski</u> patent.

Applicant respectfully disagrees.

Specifically, the Office Action asserts at page 2 that the Lisinski patent, directed to a multi-level system generating multiple custom work orders for the manufacture of an item and lower-level configurable items comprising the end item, teaches "updating a database for clarifying a definition of each technical object and its inter-relations with other objects in the configuration by an expression of rules and constraints (Fig. 2, Fig. 6, Fig. 8)." Applicant respectfully submits that Claims 1 and 11 include a specific relation between the rules, the definition, and the database. Specifically, Claim 1 recites "means for storing and updating a definition of each technical object and of its inter-relations with other of the technical objects in the product configuration, said definition comprising an expression of rules and constraints," and Claim 11 recites "a database to store and update a definition of each technical object and of its inter-relations with other of the technical objects in the product configuration, said definition comprising an expression of rules and constraints." Lisinki's Figures 2, 6, and 8 do not teach these claimed features. In particular, the Lisinski patent fails to teach or suggest the rules and constraints of independent Claims 1 and 11 included in the definition of a technical object and of its inter-relations with other of the technical objects. Indeed, the Lisinski's rules are not part of the definition of technical objects or of their interrelation because they define tasks performed by the system during the course of, among other things, obtaining option values and generating custom work orders.¹ Therefore, in the Lisinski system, a rule is a task and not part of a definition.

The Office Action asserts at page 2 that the <u>Lisinski</u> patent teaches that "the industrial product is considered as a set of functions in a functional product" and supports this assertion with Fig. 25 of the <u>Lisinski</u> patent. Applicant respectfully disagrees. The <u>Lisinski</u> patent teaches "a screen processing step 160 as shown in Fig. 25 as part of the knowledge acquisition process." As such, whereas the word function does appear in Fig. 25, it only does so in the context of the knowledge acquisition system. In other words, Applicant respectfully submits that <u>Lisinski</u>'s "functions" do not pertain to the industrial product itself, and even less to a consideration of the product "as a set of functions in a functional product," as recited in Claims 5 and 15, but rather to a processing on a screen during the knowledge acquisition process.

The Office Action further asserts at page 2 that the <u>Lisinski</u> patent teaches that "the contract management module works in connected or disconnected mode" and supports this assertion with Fig. 21 of the <u>Lisinski</u> patent. Applicant respectfully disagrees and submits that the legends of Fig. 21 (and the corresponding explanatory passage in the <u>Lisinski</u> patent) do not teach or suggest a contract module, in particular, nor any kind of module working "in connected or disconnected mode," as recited in Claims 6 and 16. Specifically, the <u>Lisinski</u> patent states with respect to Fig. 21 that "[g]enerating the custom work orders includes, among other things, dynamically generating component and labor requirements for the configured items." Applicant respectfully submits that a system that generates work orders is not a contract management module. The <u>Lisinski</u> patent itself defines the work order as "a type of recipe that specifies component requirements." and not as a contract management

¹ <u>Lisinski</u>, col. 7 line 66 – col. 8, line 2.

² Lisinski, col. 30, lines 43-45.

³ Lisinski, col. 30, lines 15-17.

⁴ Lisinski, col. 1, lines 20-21.

module. Further, there does not appear to be an indication of a work order "in connected or disconnected mode."

The Office Action further asserts at page 3 that the <u>Lisinski</u> patent teaches a contract manager that can "start a configuration checking process at any time" and supports this assertion with Figs. 5 and 6 of the <u>Lisinski</u> patent. Applicant respectfully disagrees. For example, Fig. 6 of the <u>Lisinski</u> patent states "if configured item flag is 'yes'" in step 117 and "if item is front end configurable" in step 118. Accordingly, the process cannot start "at any time," as recited in Claims 9 and 19, since for example, the load options array (step 117) cannot start at a time for which the configured item flag is not 'yes' or when the item is not "front end configurable."

Therefore, Applicant respectfully submits that the <u>Lisinski</u> patent neither teaches nor suggests at least the above-mentioned features of Claims 1, 5, 6, 9, 15, 16, and 19 in addition to the features asserted at page 3 of the Office Action not to be taught by the <u>Lisinski</u> patent.

Turning to the <u>Thackston</u> patent, directed to a comprehensive and integrated computer-based system and method for undertaking an engineering design and development, the Office Action asserts at page 3 that the <u>Thackston</u> patent teaches that "the industrial product is an aircraft" and supports this assertion with column 1, lines 55-58, of the <u>Thackston</u> patent. Applicant respectfully disagrees. The cited passage does mention an aircraft, but only as something that interacts with the industrial product, not as the industrial product itself. Specifically, the <u>Thackston</u> patent teaches "an improved <u>sonobuoy</u> for receiving and transmitting to a surveiling aircraft acoustic data from the ocean," and not an aircraft as recited in Claims 2, 4, 10, 12, 14, 20, and 24.

The Office Action further asserts at page 3 that the <u>Thackston</u> patent teaches "a knowledge, a contract and [a] mass management module" and supports this assertion with

⁵ Thackston, col. 1, lines 38-40.

Fig. 9 of the <u>Thackston</u> patent. Applicant respectfully disagrees and submits that Fig. 9 does not teach or suggest a "mass management module," as recited in Claims 3, 4, 13, 14, 27, and 28.

The Office Action further asserts at page 4 that the <u>Thackston</u> patent teaches "the knowledge management module is configured to manage technical objects each representing an aircraft, the contract management module is configured to manage fleet configurations of aircraft" and supports this assertion with col. 13, lines 43-50, col. 14, lines 31-41, and Figs. 12-22 of the <u>Thackston</u> patent. Applicant respectfully disagrees. The <u>Thackston</u> patent is concerned with a "sonobuoy," not an aircraft. Therefore, Applicant respectfully submits that the above features of Claims 4 and 14, defined with respect to an aircraft, or a fleet thereof, do not fit within the context of the <u>Thackston</u> patent and are neither taught nor suggested by the <u>Thackston</u> patent.

Therefore, even if the combination of the <u>Lisinski</u> and <u>Thackston</u> patents is assumed to be proper, the combination fails to teach every element of the claimed invention.

Specifically, the combination fails to teach the "rules and constraints" of Claims 1 and 11; that the "industrial product is considered as a set of functions in a functional product" of Claims 5 and 15; the "contract management module works in connected or disconnected mode" of Claims 6 and 16; the "at any time" feature of Claims 9 and 19; the "aircrafts" feature of Claims 2, 4, 10, 12, 14, 20, and 24; the "mass management" feature of Claims 3, 4, 13, 14, 27, and 28; and the features of Claims 4 and 14 defined with respect to an aircraft or a fleet thereof. Accordingly, Applicant respectfully traverses, and requests reconsideration of, this rejection based on these patents.⁶

⁶ See MPEP 2142 stating, as one of the three "basic criteria [that] <u>must</u> be met" in order to establish a *prima* facie case of obviousness, that "the prior art reference (or references when combined) must teach or suggest <u>all</u> the claim limitations," (emphasis added). See also MPEP 2143.03: "All words in a claim must be considered in judging the patentability of that claim against the prior art."

In order to vary the scope of protection recited in the claims, Applicant added Claims 29-35. Claim 29 finds non-limiting support in the original disclosure, for example Claims 1 and 4. Claim 29 specifies a fleet of vehicles, which vehicles are not as broad as "industrial products." Claims 30-32 specifies the types of vehicles the fleet may comprise and find non-limiting support in the originally filed application, for example at page 5, lines 3-7. Claim 33 recites features similar to Claim 7. Claim 34 and 35 recites additional features related to the managing of a fleet and find non-limiting support in the originally filed application, for example at page 15, lines 27-30. Accordingly, the new claims find support in the originally filed application and are not believed to raise a question of new matter or new issues. ⁷

Consequently, in view of the present amendment, no further issues are believed to be outstanding in the present application, and the present application is believed to be in condition for formal Allowance. A Notice of Allowance for Claims 1-35 is earnestly solicited.

Respectfully submitted,

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⁷ See MPEP 2163.06 stating that "information contained in any one of the specification, claims or drawings of the application as filed may be added to any other part of the application without introducing new matter."